

IN THE CLAIMS:

Please replace claims 1-27 of the international application with the below claims:

1. A device for detecting humans comprising:
 - a radio frequency transmitter for generating a signal;
 - a radio frequency receiver spaced relative to the radio frequency transmitter for receiving a portion of the signal;
 - a path there between sufficient for humans to pass between the transmitter and receiver; and
 - a receiver that includes a detector responsive to a change in the received portion of the signal for determining the passing by of a human.
2. A device as claimed in Claim 1 wherein the radio frequency transmitter and receiver are each housed in a pedestal.
3. A device as claimed in Claim 2 wherein the path comprises a lane defined by spacing between the pedestals.
4. A device as claimed in Claim 1 wherein the radio frequency transmitter includes a first antenna for generating a vertically polarized radio frequency signal.
5. A device as claimed in Claim 1 wherein the first antenna comprises a dipole antenna.

6. A device as claimed in Claim 1 wherein the first antenna comprises a folded dipole antenna.

7. A device as claimed in Claim 1 further comprising a second antenna for generating a horizontally polarized signal.

8. A device as claimed in Claim 7 wherein the second antenna comprises a dipole antenna.

9. A device as claimed in Claim 7 wherein the second antenna comprises a folded dipole antenna.

10. A device as claimed in Claim 1 wherein the radio frequency transmitter includes a first and a third antenna.

11. A device as claimed in Claim 10 wherein the first and third antennas comprise a dipole antenna.

12. A device as claimed in Claim 10 wherein the first and third antennas comprise a folded dipole antenna.

13. A device as claimed in Claim 11 further comprising a second antenna for generating a horizontally polarized signal.

14. A device as claimed in Claim 10 wherein first and third antennas are coupled to a single transmitter.
15. A device as claimed in Claim 10 wherein first and third antennas are coupled to separate transmitters.
16. A device as claimed in Claim 1 further comprising a metallic reflector is positioned behind each antenna relative to the path.
17. A device as claimed in claim 1 wherein the detector responds to a change in the amplitude of the received signal.
18. A device as claimed in claim 1 wherein both the phase and amplitude of the received signal are used in making a determination.
19. A building-access security system comprising a plurality of devices as claimed in claim 1.
20. A people-counting system comprising a plurality of devices as claimed in claim 1.

21. A building-access security system comprising a video camera system and a plurality of the devices as claimed in claim 1.
22. A building-access security system comprising a plurality of devices as claimed in claim 1, each further comprising an IR detection beam system.
23. A building-access security system comprising a plurality of the devices as claimed in claim 1, each device further comprising distance sensors.
24. A building-access security system as claimed in claim 22 further comprising a video camera system.
25. A building-access security system as claimed in claim 24 wherein the video camera system includes stereo video.
26. A device as claimed in claim 1 wherein the device includes a capacitance sensor.
27. A device as claimed in claim 1 wherein the transmitter and receiver are operable to provide a spread spectrum signal.